



Program Executive Office, Ships



LPD 17 and LHA(R) Program Status and Updates

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Agenda



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- Amphibious Ready Group Ship Evolution
- LHA(R) Program
 - Overview of LHA 7 thru LHA 9 progress
 - Capability Snapshot
 - Major Changes: Flight 0 to Flight I
- LPD Program



Amphibious Readiness Group (ARG) Ship Evolution



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ARG - Now



LHD/LHA



LPD 17 Flight I



LSD 41/49

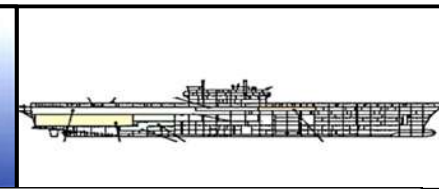
Enables Operational Maneuver *from* Sea

Offers Improvements in:

- Capacity for Larger/Heavier Aircraft/Vehicles
- Self-Defense
- Survivability
- C4I
- Flexibility (Split ARG)
- Quality of Life

Enables Ship-to-Objective Maneuver

ARG - Future



LHD/LHA(R) > LHA(R) Flt 1



LPD 17 Flight I



LPD 17 Flight II

Continuing to Deliver Relevant Amphibious Ships Critical to Enabling the USMC Mission



LHA(R) Program Overview



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DESCRIPTION / REQUIREMENTS

LHA(R) Program

- Replaces LHA 1 (Tarawa) Class Amphibious Assault Ships; Maintains Fleet Expeditionary Warfare capability
- Designed for 21st Century aviation and expeditionary operations across the full spectrum of military actions
- Provides an affordable and sustainable amphibious ship building program

PROGRAM STATUS

LHA 7: Flt 0 (LHA 6 and LHA 7) are aviation optimized LHD variants

- Ship delivered 28 Feb 2020
- Post Shakedown Availability ended 23 Dec 2021
- Obligation Work Limiting Date (OWLD) 28 Feb 2022
- Anticipate TRIPOLI to be ready to deploy later this Spring

LHA 8: Flt 1 (LHA 8 and LHA 9) modified FLT 0 with well deck added

- Fabrication commenced 15 Oct 2018; keel laying completed ahead of schedule on 14 Mar 2019
- Detail Design complete; topside GFE integration challenges exist and a topside design change is in process
- Physical Progress: 43% complete (4 Nov 2021)
- Will be delivered in 2025 with JSF modifications incorporated

LHA 9: Intended as a design/capability consistent with LHA 9

- LLTM, Advance Engineering/Planning awarded on 30 April 2020
- Anticipate award of Detail Design and Construction contract in FY23
- Proceeding with efforts needed to support start of construction



LHA(R) Program



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- Ensures amphibious fleet relevance into the 21st Century
- Enables aviation and expeditionary operations across the full spectrum of military action
- Key to forward presence, power projection, and crisis response

Aviation Capabilities

- F-35B Joint Strike Fighters (JSF) STOVL aircraft
- MV-22 Osprey VTOL tilt rotors
- CH-53K King Stallion helicopters
- UH-1Y Huey helicopters
- AH-1Z Super Cobra helicopters
- MH-60S Seahawk helicopters

Medical Facilities

- 2 OR surge to 4 OR
- 3 ICU Beds, 23 Ward Beds
- 2 Physicians + Flight Surgical Team
- Flight Physical
- Blood lab, Blood bank, X-Ray
- Dentist + Hygienist



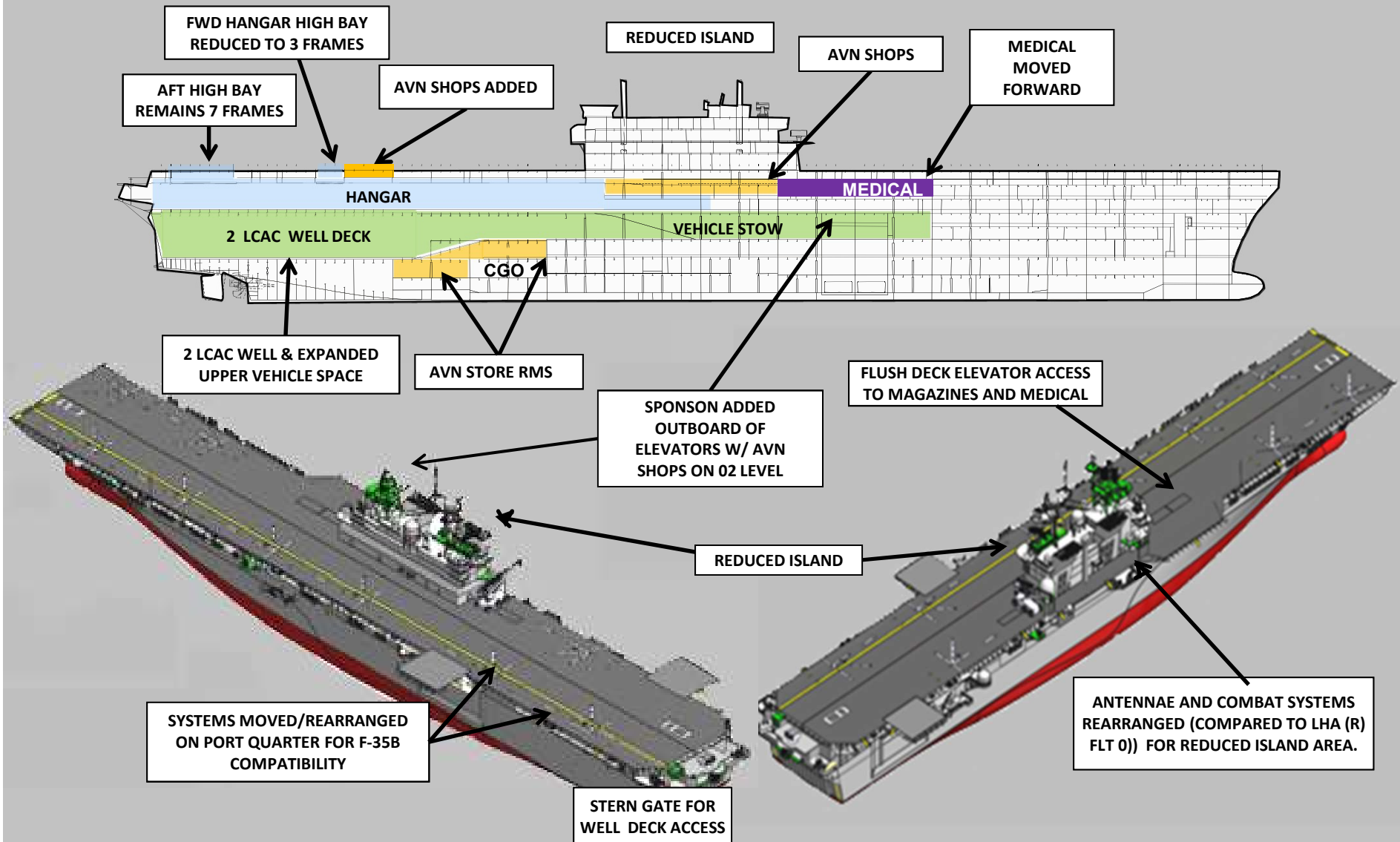
LHA(R) = The Centerpiece of the American Power Projection at Sea



Major Changes from LHA(R) Flight 0 to Flight 1



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LPD 17 Program Overview



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- **LPD 17 Program Profile (26 ships)**
 - Eleven ships delivered and commissioned
 - Eleven ships transferred to In-Service
 - 28 completed or ongoing deployments
 - Three ships under construction
 - Flt II ships will replace LSD-41 class
- **LPD 28 – First LPD with “stick mast”**
 - 97% percent complete
 - Christened 21 August 2021
 - 2QFY2022 Delivery
- **LPD 29**
 - 63% percent complete
 - Launched 5 January 2022
 - 4QFY2023 Delivery
- **LPD 30 – First Flt II ship**
 - 15% percent complete
 - November 2021 Lay Keel Ceremony
 - 2QFY2025 Delivery
- **LPD 31**
 - Start Fab April 2022





LPD Program



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- Ensures amphibious fleet relevance into the 21st Century
- Enables aviation + expeditionary operations across the full spectrum of military action
- Versatile and adaptable for forward presence, power projection, and crisis response

Aviation Capabilities

- 2 Flight Deck spots expandable to 4
- MV-22 Osprey VTOL tilt rotors
- CH-53E Sea Stallion helicopters (FLT I)
- CH-53K King Stallion helicopters (FLT II)
- UH-1Y Huey helicopters
- AH-1Z Super Cobra helicopters

Medical Facilities

- 2 OR
- 6 ICU Beds, 22 Ward Beds (Flt I), 18 Ward Beds (Flt II)
- 2 Dental OR



LPD 17 has proven to be critical in execution of the ARG/MEU mission



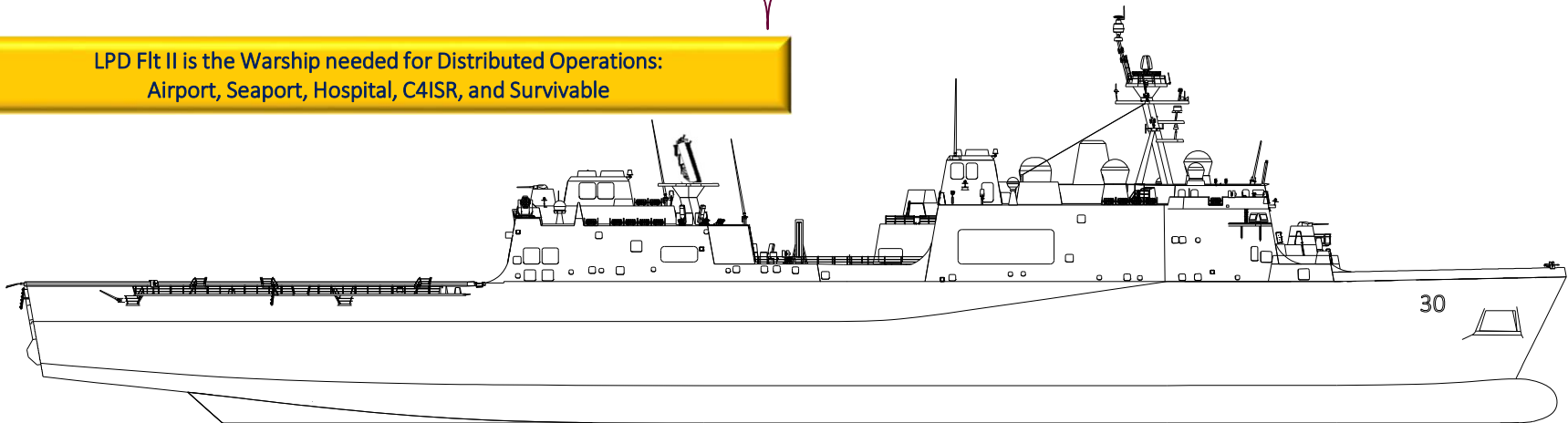
LPD Flight II (LPD 30) = LSD Replacement (Major Changes from Flight I to Flight II)



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Force Protection Storeroom	Air Dept Office & Storeroom	Reduction in Troop Berthing (From 650 to 630)	Aviation Ready Service Mag OP-4 Compliant	Modify Crane Capacity and Location	Well Deck Mods for Ship to Shore Connector
Aviation Armory	N-30 Fire Insulation	Flight gear locker increase	CH-53K mods	CCA Capable Boat and Cargo Crane	Boat Valley Rearrangement (space & tie downs for TEUs, mission boats, Quadcons)

LPD Flt II is the Warship needed for Distributed Operations:
Airport, Seaport, Hospital, C4ISR, and Survivable



Blasting Cap Lockers in CAM	New Rescue Boat Davit Design & Location	Enlarge Flam Stowage	Removed Bridge Ramp
Increased corrosive storage	Fire Detection & Alarm Systems for magazines	PoR MCS Network Architecture	Updated USMC Space Furnishing

Capability Increase

No Change in Capability

Redundant Equipment Reduction

LPD 30 will be the first of the Flight II LPDs delivered to the Navy